78639

(479)

Access DB# __________

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: PATEL SUDHAKER Examiner # : 77018 Date: 10/25/02
Art Unit: 1624 Phone Number 30 84709 Serial Number: 10009276
Mail Box and Bldg/Room Location: CM1 4E17 (4E12) Results Format Preferred (circle): (PAPER) DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

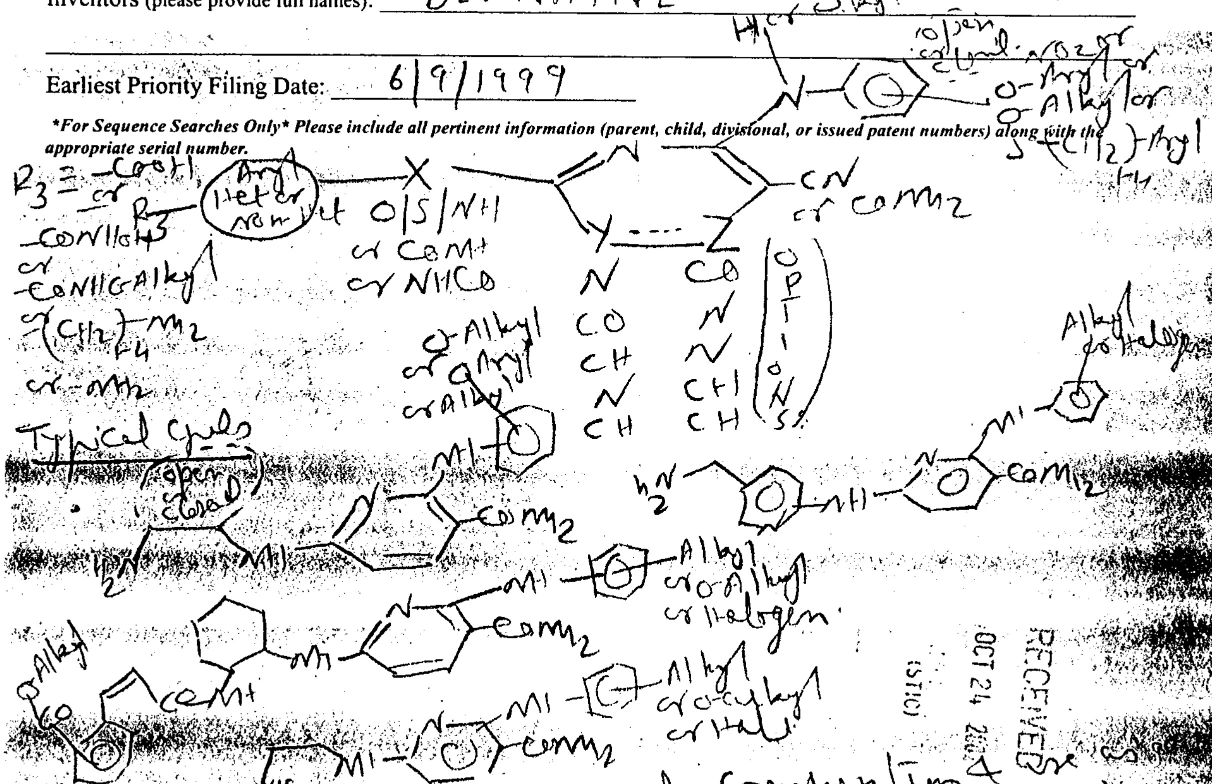
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: NOVEL HETEROCYCLE CARBOXAMIDE DERIVATIVE

Inventors (please provide full names):

Earliest Priority Filing Date: 6/9/1999

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**



Need more cpds, composition & use as SYK inhibitors to treat allergic diseases. Claims enclosed. THX. Need d/b ... total in CAPLUS. 1624

RECEIVED OCT 24 2002 (STIC)

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: Point of Contact: Alexandra Waclawiw	NA Sequence (#)	STN $274.00
Searcher Phone #: Technical Info. Specialist CM1 6A02 Tel: 308-4491	AA Sequence (#)	Dialog
Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up: 11-4	Bibliographic	Dr.Link
Date Completed: 11-4	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time:	Other	Other (specify)

39

PTO-1590 (8-01)

=> d his

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                ACT PATEL009/A
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L1              STR
L2          283 SEA FILE=REGISTRY SSS FUL L1
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L3          280 S L2 AND (CAPLUS OR CA)/LC
L4           90 S L2 AND USPATFULL/LC
L5            0 S L4 NOT L3

     FILE 'HCAPLUS' ENTERED AT 14:16:49 ON 04 NOV 2002
L6            7 S L2

     FILE 'HCAOLD' ENTERED AT 14:16:55 ON 04 NOV 2002
L7            0 S L3

     FILE 'REGISTRY' ENTERED AT 14:17:14 ON 04 NOV 2002

     FILE 'HCAPLUS' ENTERED AT 14:18:40 ON 04 NOV 2002
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                SET FORMAT .WP BIB AB TECH
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FILE 'REGISTRY' ENTERED AT 14:25:18 ON 04 NOV 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 NOV 2002 HIGHEST RN 469858-87-5
DICTIONARY FILE UPDATES: 3 NOV 2002 HIGHEST RN 469858-87-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L1 STR

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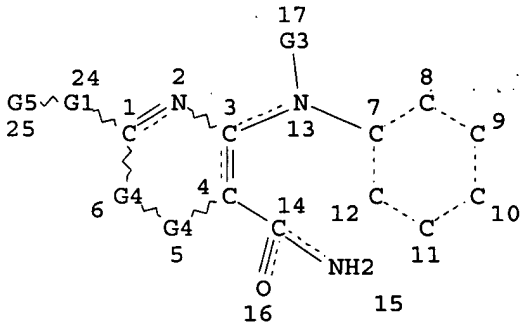

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VAR G3=H/27/36/38
VAR G4=C/N
VAR G5=27/CY
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M1-X6 C AT 27

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE
L2 283 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 447 ITERATIONS 283 ANSWERS
SEARCH TIME: 00.00.03

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(FILE 'REGISTRY' ENTERED AT 14:15:27 ON 04 NOV 2002)

L3 280 S L2 AND (CAPLUS OR CA)/LC
L4 90 S L2 AND USPATFULL/LC
L5 0 S L4 NOT L3

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 14:25:31 ON 04 NOV 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 4 Nov 2002 VOL 137 ISS 19
FILE LAST UPDATED: 3 Nov 2002 (20021103/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.
'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d his l6

(FILE 'HCAPLUS' ENTERED AT 14:16:49 ON 04 NOV 2002)
L6 7 S L2

=> d .ca l6 1-3;d .ca hitstr l6 4-7

L6 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:900621 HCAPLUS
DOCUMENT NUMBER: 134:56683
TITLE: Preparation of nitrogen-containing heterocyclic derivatives as remedies for complications of diabetes based on protein kinase C inhibition
INVENTOR(S): Suzuki, Takayuki; Onda, Kenichi; Murakami, Takeshi; Negoro, Kenji; Yahiro, Kiyoshi; Maruyama, Tatsuya; Shimaya, Akiyoshi; Ohta, Mitsuaki
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 62 pp.

* The 1st three hits are the inventors work. There are too many structures to print out. I just printed the structures for L6 4-7

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000076980	A1	20001221	WO 2000-JP3768	20000609

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 1999-163344 A 19990610
JP 1999-165217 A 19990611
OTHER SOURCE(S): MARPAT 134:56683
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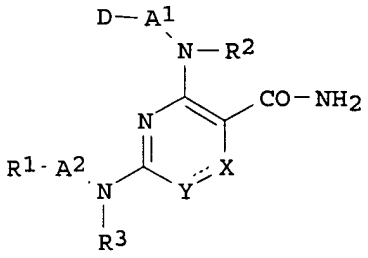

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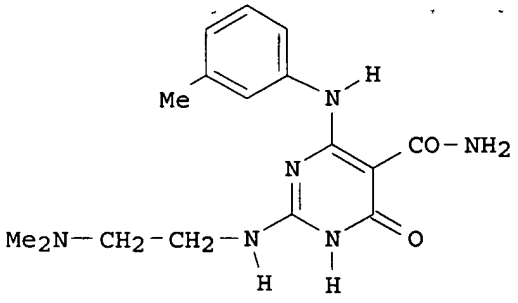

II

AB The title compds. I [Y and X together are N:N, C(R4):N, etc.; D = (un)substituted aryl, etc.; R1 = (un)substituted heteroaryl, etc.; A1, A2 = (un)substituted alkylene, etc.; R2, R3, R4 = H, OH, etc.; or R1A2NR3 = (un)substituted heteroaryl] are prepd. The title compd. II in vitro showed IC50 of 0.0049 .mu.mol against protein kinase C.

IC ICM C07D213-82
ICS C07D239-42; C07D239-47; C07D239-48; C07D403-12; C07D405-12; C07D409-12; C07D401-12; A61K031-455; A61K031-505; A61K031-506; A61K031-5377; A61P043-00; A61P009-10; A61P029-00; A61P035-00; A61P013-12
CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1

IT **313337-91-6P 313337-92-7P 313337-93-8P**
313337-94-9P 313337-95-0P 313337-96-1P
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313338-00-0P 313338-01-1P 313338-02-2P
313338-03-3P 313338-04-4P 313338-05-5P
313338-06-6P 313338-07-7P 313338-08-8P
313338-09-9P 313338-10-2P 313338-11-3P
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313338-15-7P 313338-16-8P 313338-17-9P
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313339-07-0P 313339-08-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of nitrogen-contg. heterocyclic derivs. as remedies for complications of diabetes)

IT 135085-59-5P 136866-33-6P 136866-34-7P 312736-49-5P 312736-50-8P
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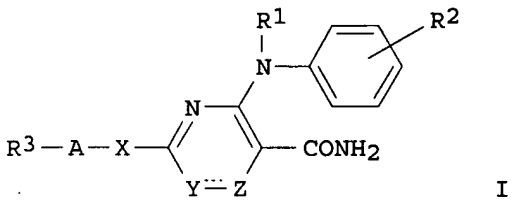
313340-26-0P 313340-27-1P 313340-28-2P 313340-29-3P 313340-30-6P
313340-31-7P **313340-32-8P** 313340-33-9P 313340-34-0P
313340-35-1P 313340-36-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of nitrogen-contg. heterocyclic derivs. as remedies for complications of diabetes)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:881124 HCAPLUS
DOCUMENT NUMBER: 134:42141
TITLE: Preparation of novel heterocyclic carboxamide derivatives as spleen tyrosine kinase inhibitors
INVENTOR(S): Hisamichi, Hiroyuki; Kawazoe, Souichirou; Tanabe, Kazuhito; Ichikawa, Atsushi; Orita, Akiko; Suzuki, Takayuki; Onda, Kenichi; Takeuchi, Makoto
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000075113	A1	20001214	WO 2000-JP3767	20000609
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2001055378	A2	20010227	JP 2000-171185	20000607
EP 1184376	A1	20020306	EP 2000-935619	20000609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.: JP 1999-162692 A 19990609
WO 2000-JP3767 W 20000609
OTHER SOURCE(S): MARPAT 134:42141
GI



I

AB Nitrogenous six-membered heterocycle compds. bearing as the substituents -X-A-R3, -N-(R1)-(R2-substituted Ph) and -CONH2 [I; wherein A = (substituted) lower alkylene, (substituted) (hetero)arylene, cycloalkylene; X = NR4, CONR4, NR4CO, O, S; the dotted line between Y and Z represents the presence of a bond (Y:Z) or the absence of a bond (Y-Z); Y-Z = NR5-CO, CO-NR5, NR5-NR5, CO-CO; Y:Z = N:CR1, CR7:N, N:N, CR7:CR7; R4 = each H, lower alkyl, -CO-lower alkyl, or -SO2-lower alkyl; R2 = H, (halo-substituted) lower alkyl, -O-lower alkyl, -S-lower alkyl, -O-aryl, nitro, cyano, or the like; R3 = -CO2H, -CO2-lower alkyl, -lower alkylene-CO2H, -NH2, -alkylene-NH2, or the like; R5 = H, lower alkyl; R6 = lower alkyl, OH, -O-lower alkyl, -O-(substituted) aryl, -O-lower alkylene-(substituted) aryl, -NR1-(substituted) aryl, -CO-lower alkyl-(substituted) aryl; R7 = H, R6] salts or prodrugs thereof are prepd. Also claimed are spleen tyrosine kinase (Syk) inhibitors contg. the compds. I or the salts or the prodrugs thereof as the active ingredient. The compds. I are useful for the prevention or treatment of allergies, inflammations, autoimmune diseases, cancers, transplant rejection, graft-vs.-host diseases, and thrombosis. Thus, 2.76 mL cis-1,2-cyclohexanediamine was added to a mixt. of 605 mg 6-chloro-2-(3-methylanilino)pyridine-3-carboxamide and 10 mL MeCN and refluxed for 5 days to give 230 mg 6-(cis-2-aminohexylamino)-2-(3-methylanilino)pyrazine-3-carboxamide (II). II showed IC50 of .ltoreq.0.05 .mu.M against Syk, good inhibition against passive cutaneous anaphylaxis (PCA) in mice sensitized by anti-dinitrophenyl-IgE (DNP-IgE), and IC50 of .ltoreq.0.1 .mu.M against serotonin release according to the assay described by Collado-Escobar (J. Immunol. 144, 1990).

IC ICM C07D213-82
ICS C07D239-48; C07D241-26; A61K031-455; A61K031-505; A61K031-4965; A61P037-08; A61P029-00; A61P043-00

CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1

IT **312736-59-7P** 312736-60-0P **312736-61-1P**
312736-62-2P **312736-79-1P** **312736-80-4P**
312736-81-5P **312736-82-6P** **312736-83-7P**
312736-84-8P **312736-85-9P** **312736-86-0P**
312736-87-1P **312736-88-2P** **312736-89-3P**
312736-90-6P **312736-91-7P** **312736-92-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of novel heterocyclic carboxamide derivs. as spleen tyrosine kinase inhibitors as preventives or remedies for diseases)

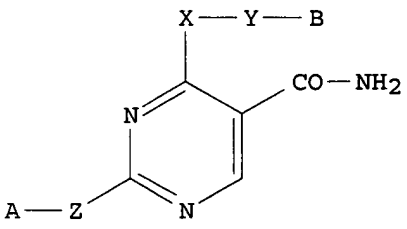
IT 312736-49-5P, 3,5-Dichloropyrazine-2-carboxylic acid 312736-50-8P, 3,5-Dichloropyrazine-2-carboxamide 312736-51-9P 312736-52-0P 312736-53-1P, 5-Chloro-3-(3-methylanilino)pyrazine-2-carboxamide **312736-55-3P** **312736-57-5P** 312736-63-3P 312736-64-4P 312736-65-5P 312736-66-6P 312736-67-7P 312736-68-8P 312736-69-9P 312736-70-2P 312736-71-3P 312736-72-4P 312736-73-5P

312736-74-6P 312736-75-7P 312736-76-8P
312736-77-9P 312736-78-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of novel heterocyclic carboxamide derivs. as spleen tyrosine kinase inhibitors as preventives or remedies for diseases)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:404941 HCAPLUS
DOCUMENT NUMBER: 131:44844
TITLE: preparation of novel pyrimidine-5-carboxamide derivatives as tyrosinase inhibitors
INVENTOR(S): Hisamichi, Hiroyuki; Naito, Ryo; Kawazoe, Souichirou; Toyoshima, Akira; Tanabe, Kazuhito; Nakai, Eiichi; Ichikawa, Atsushi; Orita, Akiko; Takeuchi, Makoto
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 43 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9931073	A1	19990624	WO 1998-JP5643	19981214
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9915071	A1	19990705	AU 1999-15071	19981214
EP 1054004	A1	20001122	EP 1998-959197	19981214
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
US 6432963	B1	20020813	US 2000-581595	20000615

PRIORITY APPLN. INFO.: JP 1997-344588 A 19971215
WO 1998-JP5643 W 19981214
OTHER SOURCE(S): MARPAT 131:44844
GI



I

AB Pyrimidine-5-carboxyamide derivs. or salts [I; X = O, S, NR1, CO, NR1CO, CONR1, C=NOR1, a bond; Y = lower alkylene optionally substituted by OR1 or NHR1, a bond; Z = O, NR2, a bond; A = H, optionally substituted lower

alkyl, lower alkyl optionally having CO, optionally substituted aryl or heteroaryl, optionally substituted cycloalkyl, optionally substituted and satd. N heterocycle; B = optionally substituted aryl or heteroaryl; R1, R2 = H or lower alkyl optionally contg. CO], effective tyrosinase inhibitors useful as 5-HT antagonists, antiallergics, were prepd. I showed IC50 < 0.1 .mu.M in scintillation proximity assay. I were effective at 0.1-10 mg/kg-day p.o.

IC ICM C07D239-48
ICS C07D239-47; C07D239-56; C07D239-42; C07D403-12; C07D403-06; C07D407-12; C07D409-12; C07D401-12; C07D401-06; A61K031-505; A61K031-535; C07D403-12; C07D209-00; C07D239-00; C07D403-12; C07D233-00; C07D239-00; C07D403-06; C07D209-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1

IT **227449-68-5P 227449-69-6P 227449-70-9P**
227449-71-0P 227449-72-1P 227449-73-2P
227449-74-3P 227449-75-4P 227449-76-5P 227449-77-6P
227449-78-7P 227449-79-8P 227449-80-1P **227449-81-2P**
227449-82-3P **227449-83-4P 227449-84-5P** 227449-85-6P
227449-87-8P 227449-88-9P 227449-89-0P 227449-90-3P
227449-91-4P 227449-92-5P 227449-93-6P
227449-94-7P 227449-95-8P 227449-97-0P
227449-98-1P 227449-99-2P 227450-00-2P
227450-01-3P 227450-02-4P **227450-04-6P**
227450-05-7P 227450-06-8P 227450-07-9P
227450-08-0P 227450-09-1P 227450-10-4P
227450-11-5P 227450-12-6P 227450-13-7P
227450-14-8P 227450-15-9P 227450-16-0P
227450-17-1P 227450-18-2P 227450-19-3P **227450-20-6P**
227450-21-7P 227450-22-8P 227450-23-9P
227450-24-0P 227450-25-1P 227450-26-2P
227450-27-3P 227450-28-4P 227450-29-5P
227450-30-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of novel pyrimidine-5-carboxamide derivs. as tyrosinase inhibitors)

IT 106-49-0, p-Toluidine, reactions 867-44-7 1436-59-5, cis-1,2-Cyclohexanediamine 2592-95-2, 1-Hydroxybenzotriazole 3891-07-4, N-(2-Hydroxyethyl)phthalimide 19878-96-7 38184-47-3 51940-64-8, Ethyl 2,4-dichloropyrimidine-5-carboxylate 94838-55-8 227449-03-8 **227449-04-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of novel pyrimidine-5-carboxamide derivs. as tyrosinase inhibitors)

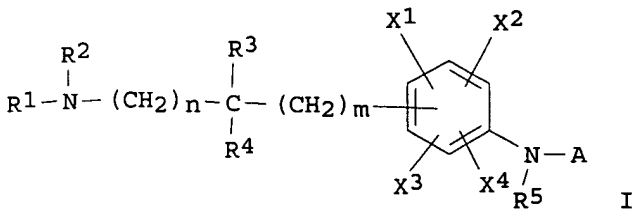
IT 3859-55-0P 15969-42-3P 16100-40-6P 16100-56-4P 16146-47-7P
107683-06-7P 227449-02-7P 227449-05-0P 227449-06-1P 227449-07-2P
227449-08-3P 227449-09-4P 227449-10-7P 227449-11-8P 227449-12-9P
227449-13-0P 227449-14-1P 227449-15-2P 227449-16-3P 227449-17-4P
227449-18-5P 227449-19-6P 227449-20-9P 227449-21-0P 227449-22-1P
227449-23-2P 227449-24-3P 227449-25-4P 227449-26-5P 227449-27-6P
227449-28-7P 227449-29-8P 227449-30-1P 227449-31-2P 227449-32-3P
227449-33-4P 227449-34-5P 227449-35-6P 227449-36-7P 227449-37-8P
227449-38-9P 227449-39-0P 227449-40-3P 227449-41-4P 227449-42-5P
227449-43-6P 227449-44-7P 227449-45-8P **227449-46-9P**
227449-47-0P 227449-48-1P 227449-49-2P
227449-50-5P 227449-51-6P 227449-52-7P
227449-53-8P 227449-54-9P **227449-55-0P** 227449-56-1P
227449-57-2P **227449-58-3P** 227449-59-4P **227449-60-7P**

227449-61-8P 227449-62-9P 227449-63-0P
227449-64-1P 227449-65-2P **227449-66-3P**
227449-67-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of novel pyrimidine-5-carboxamide derivs. as tyrosinase inhibitors)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

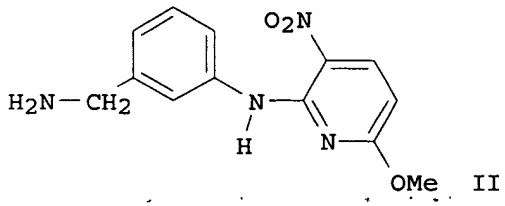
L6 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:479495 HCAPLUS
DOCUMENT NUMBER: 129:108995
TITLE: Preparation of aromatic and heterocyclic amine derivatives as NOS inhibitors
INVENTOR(S): Esaki, Toru; Makino, Toshihiko; Nishimura, Yoshikazu; Nagafuji, Toshiaki
PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 165 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9828257	A1	19980702	WO 1997-JP4762	19971224
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9853394	A1	19980717	AU 1998-53394	19971224
AU 742388	B2	20020103		
JP 10237028	A2	19980908	JP 1997-366474	19971224
EP 949242	A1	19991013	EP 1997-950368	19971224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1240419	A	20000105	CN 1997-180594	19971224
NO 9903109	A	19990824	NO 1999-3109	19990622
US 6331553	B1	20011218	US 1999-331733	19990624

PRIORITY APPLN. INFO.: JP 1996-359791 A 19961224
WO 1997-JP4762 W 19971224
OTHER SOURCE(S): MARPAT 129:108995
GI



I



II

AB The title compds. I [R1 and R2 represent each hydrogen, etc.; R3 and R4 represent each hydrogen, lower alkyl, etc.; R5 represents hydrogen, etc.; X1, X2, X3 and X4 represent each hydrogen, lower alkoxyl, etc.; A represents an optionally substituted pyridine ring, etc.; and m and n are each 0 or 1] are prepd. I are useful as pharmaceuticals for cerebrovascular disorders, etc. The title compd. II in vitro showed IC50 values of 22.6 nM and 916.7 nM against nNOS and iNOS, resp.

IC ICM C07C211-54
ICS C07C211-56; C07C209-10; C07D239-42; C07D241-20; C07D263-48; C07D207-335; C07D207-337; C07D401-12; C07D205-04; C07D203-12; C07D401-12; C07D277-42; C07D295-12; C07D233-88; C07D213-74; C07D213-79; C07D213-81; C07D213-85; A61K031-135

CC 27-16 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1, 28

IT 209897-31-4P 209897-32-5P 209897-33-6P 209897-34-7P 209897-35-8P
209897-36-9P 209897-37-0P 209897-38-1P 209897-39-2P 209897-40-5P
209897-41-6P 209897-42-7P 209897-43-8P 209897-44-9P 209897-45-0P
209897-46-1P 209897-47-2P 209897-48-3P 209897-49-4P 209897-50-7P
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209898-29-3P 209898-30-6P 209898-31-7P 209898-32-8P 209898-33-9P
209898-34-0P 209898-35-1P 209898-36-2P 209898-37-3P 209899-32-1P
209899-33-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of arom. and heterocyclic amine derivs. as NOS inhibitors)

IT 74-88-4, Methyl iodide, reactions 74-93-1, Methanethiol, reactions 75-03-6, Ethyl iodide 75-30-9, Isopropyl iodide 85-38-1, 3-Nitrosalicylic acid 107-08-4, Propyl iodide 108-59-8, Dimethyl malonate 123-38-6, Propionaldehyde, reactions 143-33-9, Sodium cyanide 288-13-1, Pyrazole 446-38-8 463-71-8, Thiophosgene 506-59-2, Dimethylamine hydrochloride 556-53-6, Propylamine hydrochloride 557-66-4, Ethylamine hydrochloride 593-51-1, Methylamine hydrochloride 609-08-5 612-12-4, .alpha.,.alpha.'-Dichloro-o-xylene 695-34-1, 2-Amino-4-methylpyridine 700-37-8, 4-Chloro-2-fluoronitrobenzene 700-38-9, 5-Methyl-2-nitrophenol 2402-77-9 2578-45-2, 2-Chloro-3,5-dinitropyridine 3430-17-9 3510-66-5 4403-70-7 4504-27-2 4548-45-2 4684-94-0 4926-28-7 5326-23-8 5344-78-5 5407-87-4 5470-18-8, 2-Chloro-3-nitropyridine 6313-54-8 7664-41-7, Ammonia, reactions 10366-35-5 13036-57-2 14237-71-9 16013-85-7 16063-70-0 17228-64-7, 2-Chloro-6-methoxypyridine 18368-63-3 22490-32-0 23056-39-5 24424-99-5, Di-tert-butyl dicarbonate 25462-85-5 33252-28-7 33252-30-1 33252-32-3 38496-18-3, 2,6-Dichloronicotinic acid 38533-61-8 40108-12-1 40851-91-0 41085-43-2 41667-95-2 42521-10-8 50667-69-1 51779-32-9, Di-tert-butyl iminodicarboxylate 53939-30-3 54957-84-5 56057-19-3 62068-78-4 65753-47-1 90811-24-8 94838-59-2 95652-77-0 121643-47-8 136353-03-2 147291-66-5 175277-66-4 180079-52-1 180079-66-7 180079-71-4 180081-24-7 180146-52-5 180146-88-7 180147-34-6 180147-45-9 180147-86-8 180148-38-3 180148-45-2 180148-78-1 180149-46-6 180149-72-8 180150-02-1 200281-49-8 209899-46-7 209899-47-8 209899-48-9 209899-49-0 209899-50-3 209899-51-4 209899-52-5 209899-53-6 209899-54-7 **209899-55-8** 209899-56-9 209899-57-0 209899-58-1 209899-59-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of arom. and heterocyclic amine derivs. as NOS inhibitors)

IT 4403-70-7DP, 3-Aminobenzylamine, reaction product with nitrophenoxycarbonyl-Wang resin 111010-08-3P 209898-38-4P 209898-39-5P 209898-40-8P 209898-41-9P 209898-42-0P 209898-43-1P 209898-44-2P 209898-45-3P 209898-46-4P 209898-47-5P 209898-48-6P 209898-49-7P 209898-50-0P 209898-51-1P 209898-52-2P 209898-53-3P 209898-54-4P 209898-55-5P 209898-56-6P 209898-57-7P 209898-58-8P 209898-59-9P 209898-60-2P 209898-61-3P 209898-62-4P 209898-63-5P 209898-64-6P 209898-65-7P 209898-66-8P 209898-67-9P 209898-68-0P 209898-69-1P 209898-70-4P 209898-71-5P 209898-72-6P 209898-73-7P 209898-74-8P 209898-75-9P 209898-76-0P 209898-77-1P 209898-78-2P 209898-79-3P 209898-80-6P 209898-81-7P 209898-82-8P 209898-83-9P 209898-84-0P 209898-85-1P 209898-86-2P 209898-87-3P 209898-88-4P 209898-89-5P 209898-90-8P 209898-91-9P 209898-92-0P 209898-93-1P 209898-94-2P 209898-95-3P 209898-96-4P 209898-97-5P 209898-98-6P 209898-99-7P 209899-00-3P 209899-01-4P 209899-02-5P 209899-03-6P 209899-04-7P 209899-05-8P 209899-06-9P 209899-07-0P 209899-08-1P 209899-09-2P **209899-10-5P** 209899-11-6P 209899-12-7P 209899-13-8P 209899-14-9P 209899-15-0P 209899-16-1P 209899-17-2P 209899-18-3P 209899-19-4P 209899-20-7P 209899-21-8P 209899-22-9P 209899-23-0P 209899-24-1P 209899-25-2P 209899-26-3P 209899-27-4P 209899-28-5P 209899-29-6P 209899-30-9P 209899-31-0P 209899-34-3P 209899-35-4P 209899-36-5P 209899-37-6P 209899-38-7P 209899-39-8P 209899-40-1P 209899-41-2P 209899-42-3P 209899-43-4P 209899-44-5P 209899-45-6P

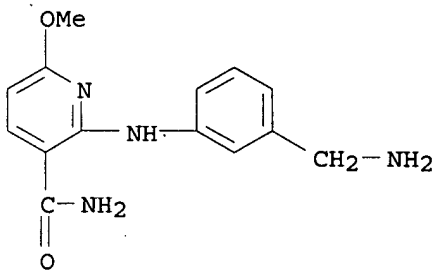
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of arom. and heterocyclic amine derivs. as NOS inhibitors)

IT **209897-93-8P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of arom. and heterocyclic amine derivs. as NOS inhibitors)

RN 209897-93-8 HCAPLUS

CN 3-Pyridinecarboxamide, 2-[[3-(aminomethyl)phenyl]amino]-6-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)



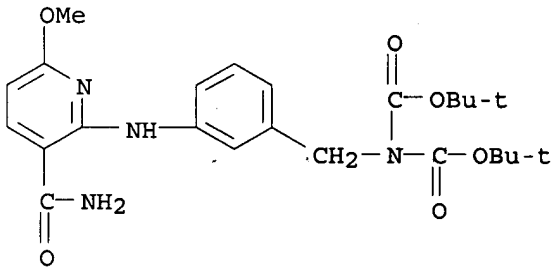
● HCl

IT **209899-55-8**

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of arom. and heterocyclic amine derivs. as NOS inhibitors)

RN 209899-55-8 HCAPLUS

CN Imidodicarbonic acid, [[3-[[3-(aminocarbonyl)-6-methoxy-2-pyridinyl]amino]phenyl]methyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

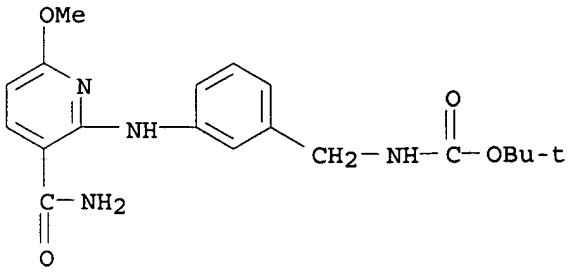


IT **209899-10-5P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of arom. and heterocyclic amine derivs. as NOS inhibitors)

RN 209899-10-5 HCAPLUS

CN Carbamic acid, [[3-[[3-(aminocarbonyl)-6-methoxy-2-pyridinyl]amino]phenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1983:181115 HCAPLUS
DOCUMENT NUMBER: 98:181115
TITLE: Fiber-reactive diaminopyridine azo dyes
INVENTOR(S): Niwa, Toshio; Hihara, Toshio; Shimizu, Yukiharu
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd. , Japan
SOURCE: Ger. Offen., 99 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3227253	A1	19830210	DE 1982-3227253	19820721
JP 58015558	A2	19830128	JP 1981-114231	19810721
JP 02031748	B4	19900716		
JP 58047060	A2	19830318	JP 1981-145943	19810916
JP 01050263	B4	19891027		
JP 58109559	A2	19830629	JP 1981-208498	19811223
JP 03032585	B4	19910513		
JP 58136657	A2	19830813	JP 1982-19289	19820209
JP 03035341	B4	19910527		
GB 2105739	A1	19830330	GB 1982-21092	19820721
GB 2105739	B2	19850703		
US 4500455	A	19850219	US 1982-400533	19820721
CH 649570	A	19850531	CH 1982-4455	19820721
US 4515716	A	19850507	US 1982-414733	19820903

PRIORITY APPLN. INFO.:
JP 1981-114231 19810721
JP 1981-145943 19810916
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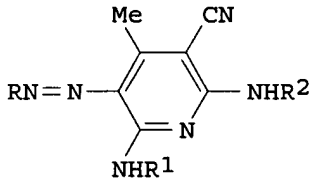
GI



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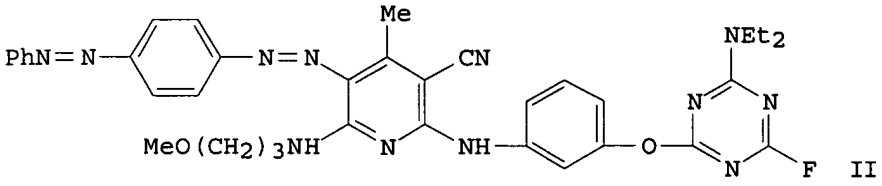

II

AB Lightfast orange to blue dyes (I) for cellulosic fibers are described, where R = anthraquinon-1-yl, substituted Ph, (phenylazo)phenyl, 2-thiazolyl, 2-benzothiazolyl, 2-(alkylthio)-1,3,4-thiadiazolyl, or 3-cyano-5-(phenylazo)-2-thiazolyl; R1 = [[fluoro(hydrocarbyloxy)triazinyl]amino]alkyl (Q) or [[(aminofluorotriazinyl)oxy]phenyl]alkyl (Q1); R2 = Ph or halophenyl when R1 = Q, or R2 = H, Ph, PhCH2, allyl, alkyl, or hydroxyalkyl when R1 = Q1. Thus, II [85500-07-8] (.lambda.max 490 nm), prepd. by reaction of I (R = p-PhN:NC6H4, R1 = CH2CH2CH2OMe, R2 = C6H4OH-m) [85500-08-9] with 2-(diethylamino)-4,6-difluoro-s-triazine [708-98-5], gave light- and wetfast yellowish red dyeings on polyester-cotton fabric. The .lambda.max and shades on cellulosic textiles of 357 other dyes are reported.

IC C09B029-42; C09B031-153; C09B062-08; D06P001-04; D06P003-60

CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

IT 85495-36-9 85495-37-0 85495-38-1 85495-39-2 85495-40-5
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RL: TEM (Technical or engineered material use); USES (Uses)
(dye, for cellulosic textiles)

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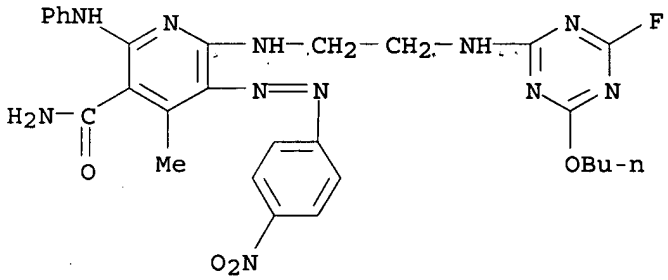
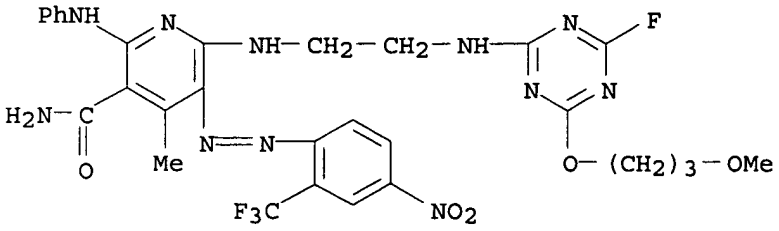
85499-37-2 **85499-38-3** **85499-42-9**
85499-47-4 **85499-49-6** **85499-50-9**
85499-56-5 **85499-60-1** **85499-62-3**
85499-67-8 **85499-74-7** **85499-75-8**
85499-81-6 **85499-86-1** **85499-87-2**
85499-90-7 **85499-93-0** **85499-96-3**
RL: TEM (Technical or engineered material use); USES (Uses)
(dye, for cellulosic textiles)

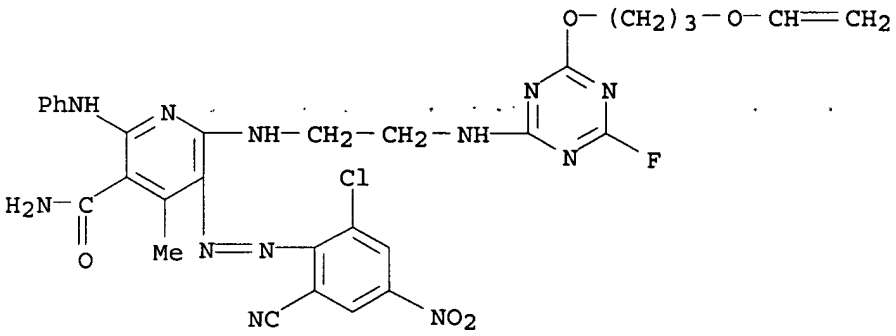
RN 85499-25-8 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[2-[(4-butoxy-6-fluoro-1,3,5-triazin-2-yl)amino]ethyl]amino]-4-methyl-5-[(4-nitrophenyl)azo]-2-(phenylamino)- (9CI) (CA INDEX NAME)



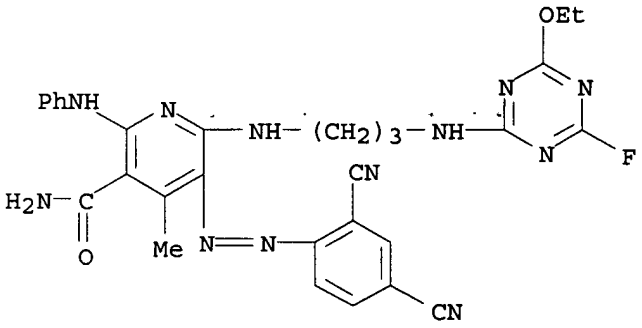
RN 85499-27-0 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[2-[[4-fluoro-6-(3-methoxypropoxy)-1,3,5-triazin-2-yl]amino]ethyl]amino]-4-methyl-5-[[4-nitro-2-(trifluoromethyl)phenyl]azo]-2-(phenylamino)- (9CI) (CA INDEX NAME)



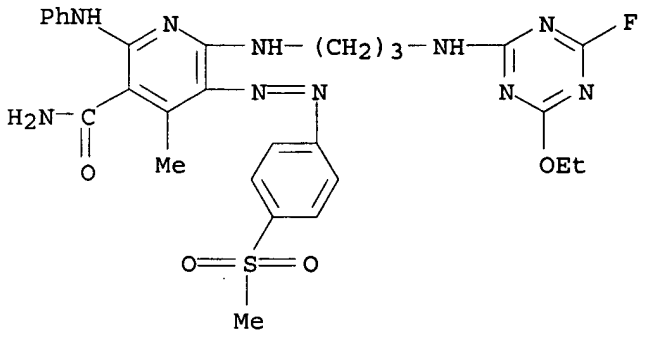
RN 85499-32-7 HCAPLUS
CN 3-Pyridinecarboxamide, 5-[(2-chloro-6-cyano-4-nitrophenyl)azo]-6-[[2-[[4-[3-(ethenyloxy)propoxy]-6-fluoro-1,3,5-triazin-2-yl]amino]ethyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



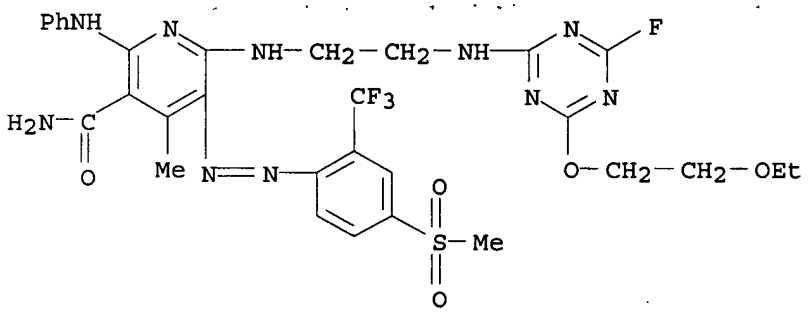
RN 85499-37-2 HCAPLUS
CN 3-Pyridinecarboxamide, 5-[(2,4-dicyanophenyl)azo]-6-[[3-[(4-ethoxy-6-fluoro-1,3,5-triazin-2-yl)amino]propyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



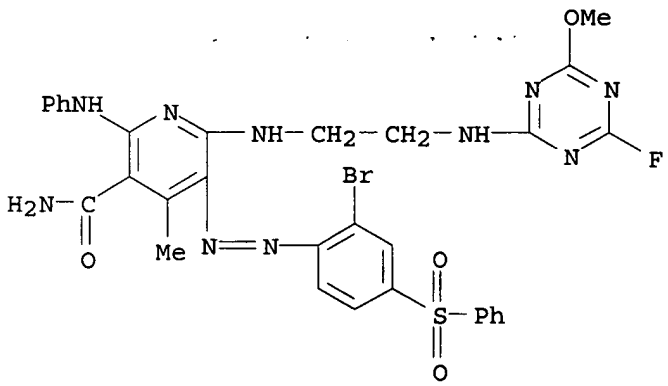
RN 85499-38-3 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[3-[(4-ethoxy-6-fluoro-1,3,5-triazin-2-yl)amino]propyl]amino]-4-methyl-5-[[4-(methylsulfonyl)phenyl]azo]-2-(phenylamino)- (9CI) (CA INDEX NAME)



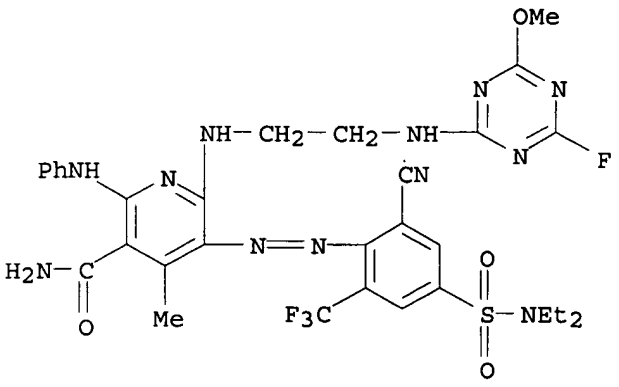
RN 85499-42-9 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[2-[[4-(2-ethoxyethoxy)-6-fluoro-1,3,5-triazin-2-yl]amino]ethyl]amino]-4-methyl-5-[[4-(methylsulfonyl)-2-(trifluoromethyl)phenyl]azo]-2-(phenylamino)- (9CI) (CA INDEX NAME)



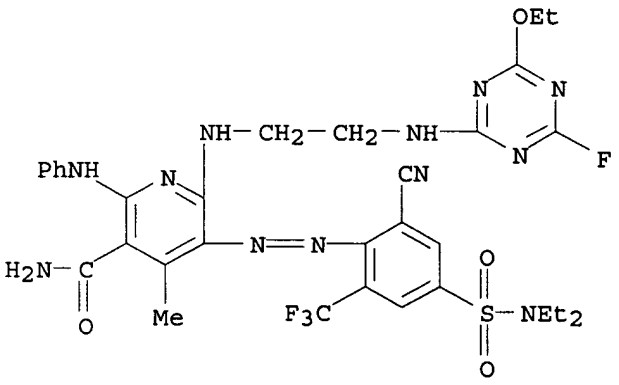
RN 85499-47-4 HCAPLUS
CN 3-Pyridinecarboxamide, 5-[[2-bromo-4-(phenylsulfonyl)phenyl]azo]-6-[[2-[(4-fluoro-6-methoxy-1,3,5-triazin-2-yl)amino]ethyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



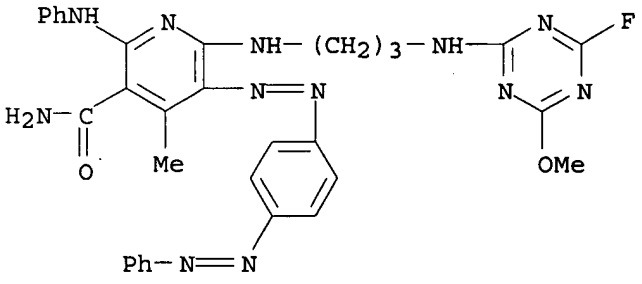
RN 85499-49-6 HCAPLUS
CN 3-Pyridinecarboxamide, 5-[[2-cyano-4-[(diethylamino)sulfonyl]-6-(trifluoromethyl)phenyl]azo]-6-[[2-[(4-fluoro-6-methoxy-1,3,5-triazin-2-yl)amino]ethyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



RN 85499-50-9 HCAPLUS
CN 3-Pyridinecarboxamide, 5-[[2-cyano-4-[(diethylamino)sulfonyl]-6-(trifluoromethyl)phenyl]azo]-6-[[2-[(4-ethoxy-6-fluoro-1,3,5-triazin-2-yl)amino]ethyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)

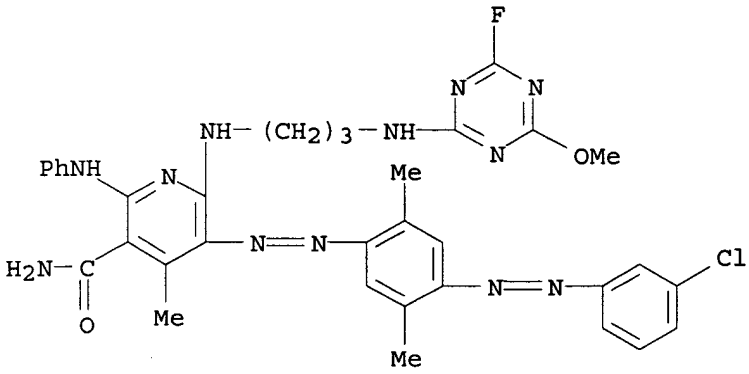


RN 85499-56-5 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[3-[(4-fluoro-6-methoxy-1,3,5-triazin-2-yl)amino]propyl]amino]-4-methyl-2-(phenylamino)-5-[[4-(phenylazo)phenyl]azo]- (9CI) (CA INDEX NAME)

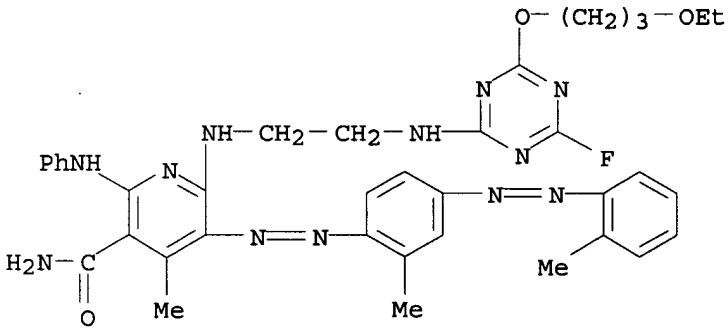


RN 85499-60-1 HCAPLUS
CN 3-Pyridinecarboxamide, 5-[[4-[(3-chlorophenyl)azo]-2,5-dimethylphenyl]azo]-

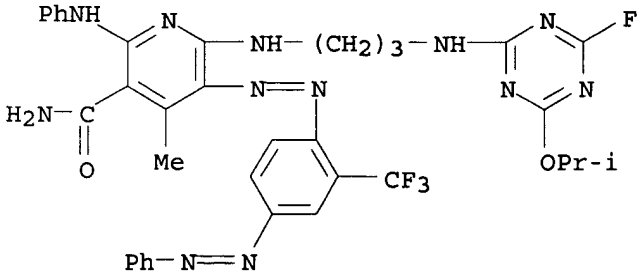
6-[[3-[(4-fluoro-6-methoxy-1,3,5-triazin-2-yl)amino]propyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



RN 85499-62-3 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[2-[[4-(3-ethoxypropoxy)-6-fluoro-1,3,5-triazin-2-yl]amino]ethyl]amino]-4-methyl-5-[[2-methyl-4-[(2-methylphenyl)azo]phenyl]azo]-2-(phenylamino)- (9CI) (CA INDEX NAME)

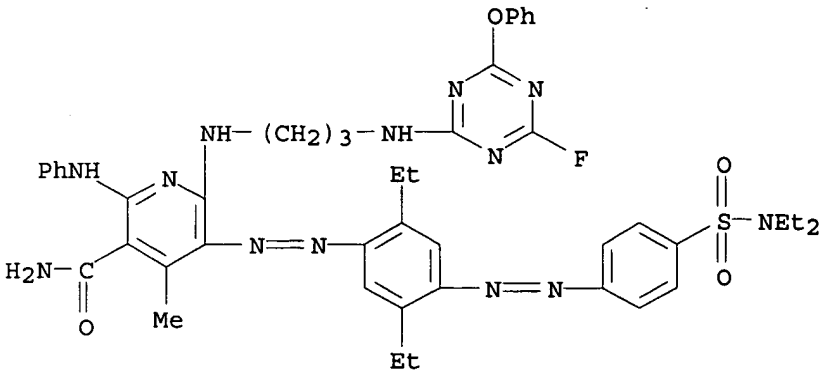


RN 85499-67-8 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[3-[[4-fluoro-6-(1-methylethoxy)-1,3,5-triazin-2-yl]amino]propyl]amino]-4-methyl-2-(phenylamino)-5-[[4-(phenylazo)-2-(trifluoromethyl)phenyl]azo]- (9CI) (CA INDEX NAME)

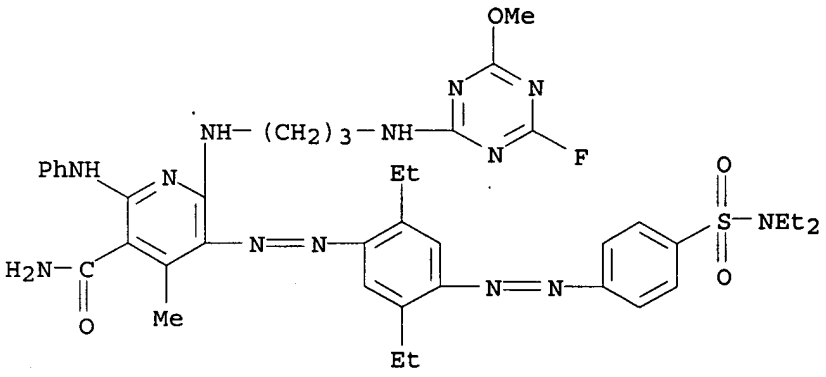


RN 85499-74-7 HCAPLUS
CN 3-Pyridinecarboxamide, 5-[[4-[[4-[(diethylamino)sulfonyl]phenyl]azo]-2,5-diethylphenyl]azo]-6-[[3-[(4-fluoro-6-phenoxy-1,3,5-triazin-2-

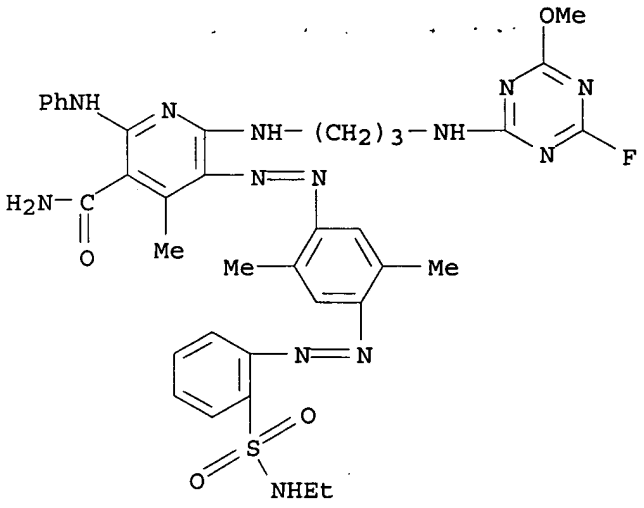
yl)amino]propyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



RN 85499-75-8 HCAPLUS
CN 3-Pyridinecarboxamide, 5-[[4-[[4-[(diethylamino)sulfonyl]phenyl]azo]-2,5-diethylphenyl]azo]-6-[[3-[(4-fluoro-6-methoxy-1,3,5-triazin-2-yl)amino]propyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



RN 85499-81-6 HCAPLUS
CN 3-Pyridinecarboxamide, 5-[[4-[[2-[(ethylamino)sulfonyl]phenyl]azo]-2,5-dimethylphenyl]azo]-6-[[3-[(4-fluoro-6-methoxy-1,3,5-triazin-2-yl)amino]propyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



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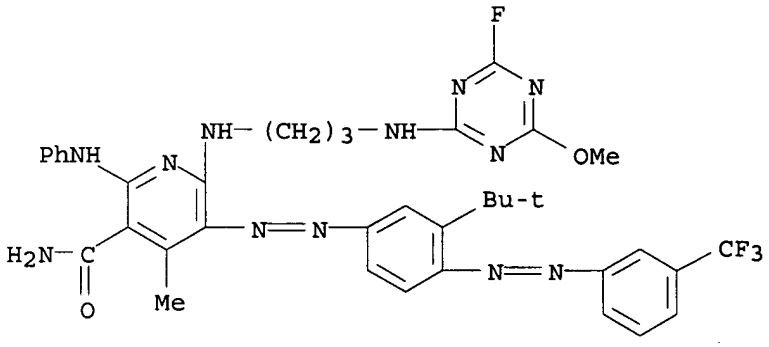
CN 3-Pyridinecarboxamide, 5-[[3-(1,1-dimethylethyl)-4-[[3-(trifluoromethyl)phenyl]azo]phenyl]azo]-6-[[3-[(4-fluoro-6-methoxy-1,3,5-triazin-2-yl)amino]propyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



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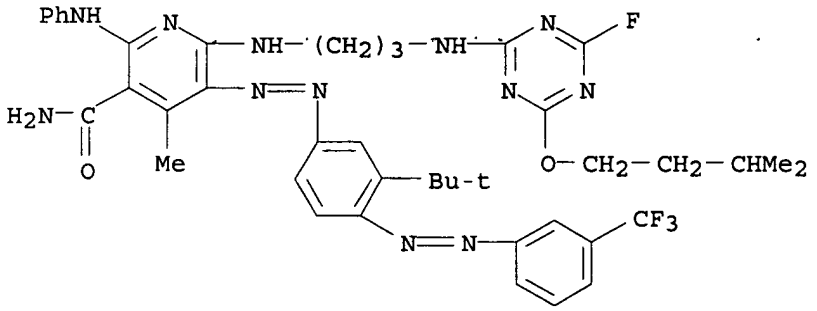
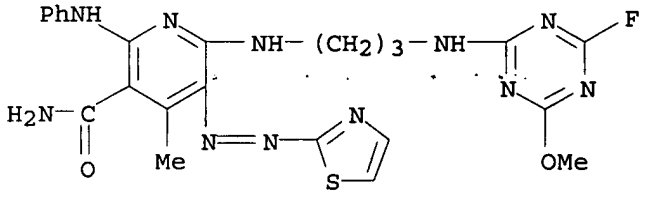
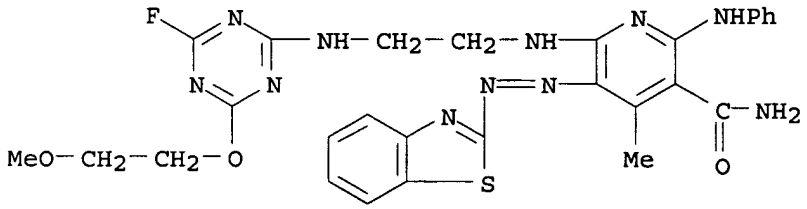
CN 3-Pyridinecarboxamide, 5-[[3-(1,1-dimethylethyl)-4-[[3-(trifluoromethyl)phenyl]azo]phenyl]azo]-6-[[3-[[4-fluoro-6-(3-methylbutoxy)-1,3,5-triazin-2-yl]amino]propyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



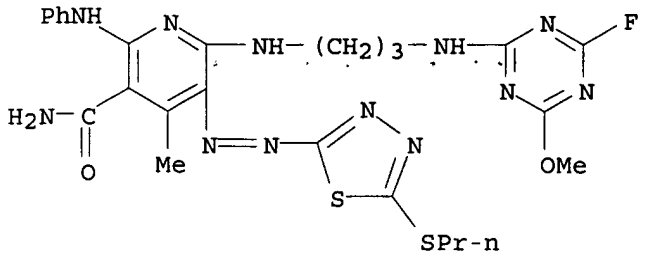
RN 85499-90-7 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[3-[(4-fluoro-6-methoxy-1,3,5-triazin-2-yl)amino]propyl]amino]-4-methyl-2-(phenylamino)-5-(2-thiazolylazo)- (9CI) (CA INDEX NAME)



RN 85499-93-0 HCAPLUS
CN 3-Pyridinecarboxamide, 5-(2-benzothiazolylazo)-6-[[2-[[4-fluoro-6-(2-methoxyethoxy)-1,3,5-triazin-2-yl]amino]ethyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



RN 85499-96-3 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[3-[(4-fluoro-6-methoxy-1,3,5-triazin-2-yl)amino]propyl]amino]-4-methyl-2-(phenylamino)-5-[[5-(propylthio)-1,3,4-thiadiazol-2-yl]azo]- (9CI) (CA INDEX NAME)



L6 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1976:107087 HCAPLUS
DOCUMENT NUMBER: 84:107087
TITLE: Coupling components for azo dyes
PATENT ASSIGNEE(S): BASF A.-G., Ger.
SOURCE: Japan. Kokai, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49094677	A2	19740909	JP 1972-125836	19721216
JP 52046230	B4	19771122		
US 29640	E	19780523	US 1976-711863	19760805

PRIORITY APPLN. INFO.:

DE 1970-2062717	19701219
DE 1971-2156545	19711115
US 1971-209431	19711217
DE 1972-2211663	19720310
DE 1972-2216570	19720406
DE 1972-2226933	19720602
DE 1972-2251702	19721021
DE 1972-2251719	19721021
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DE 1972-2259684	19721206
DE 1972-2260827	19721213
GB 1972-57442	19721213
JP 1972-125836	19721216
DE 1972-2263458	19721227
US 1973-328459	19730131

GI For diagram(s), see printed CA Issue.

AB Coupling components I (R, R3 = alkyl, cycloalkyl, aryl, or O-contg. aliph. groups; R1 = H, alkyl; R2 = CN, CONH2) for azo dyes are prepd. by reaction of chloropyridine derivs. II (R4 = Cl, RNH) with R3NH2. Thus, 187 parts II (R1 = Me, R2 = CN, R4 = Cl) [875-35-4] in 500 parts MeOH was heated 5-6 hr at 40-5.degree. with 80 parts HOCH2CH2CH2NH2 [141-43-5] in the presence of 100 parts Et3N, dild. with 1000 parts H2O and acidified with 50 parts concd. HCl to give 210 parts II (R1 = Me, R2 = CN on left, R4 = NHCH2CH2OH) [52982-62-4] contg. traces of its isomer, as a colorless powder. This powder (125 parts) was stirred 6 hr with 300 parts MeOCH2CH2NH2 [109-85-3] to give I (R = CH2CH2OMe, R1 = Me, R2 = CN, R3 = CH2CH2OH) [38841-87-1] contg. traces of its isomer. By similar means an addnl. 42 II (R2 = Cn), 14 II (R = CONH2), 272 I (R2 = CN), and 67 I (R2 = CONH2) were prepd. I (R = MeOCH2CH2, R1 = Me, R2 = CN, R3 = CH2CH2Ph)

[58445-83-3] was hydrolyzed with 90% H_2SO_4 at 80-100.degree. for 6-8 hr to give I (R, R1, R3 unchanged, R2 = CONH2) [52981-95-0], which coupled with diazotized p-$O_2NC_6H_4NH_2$ to give a red dye.

CC 40-10 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)
Section cross-reference(s): 27

IT 58444-37-4P 58444-38-5P 58444-39-6P 58444-40-9P 58444-41-0P
58444-42-1P 58444-43-2P 58444-44-3P 58444-45-4P 58444-46-5P
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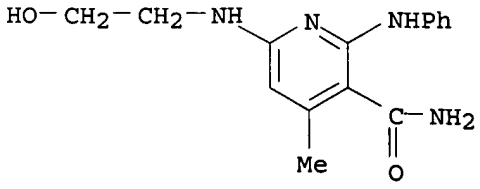
58445-81-1P 58445-82-2P 58445-83-3P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

IT **58445-52-6P 58445-53-7P 58445-54-8P**
58445-55-9P 58445-76-4P 58445-77-5P
58445-78-6P 58445-79-7P 58445-80-0P
58445-81-1P 58445-82-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 58445-52-6 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[(2-hydroxyethyl)amino]-4-methyl-2-(phenylamino)-(9CI) (CA INDEX NAME)



RN 58445-53-7 HCAPLUS
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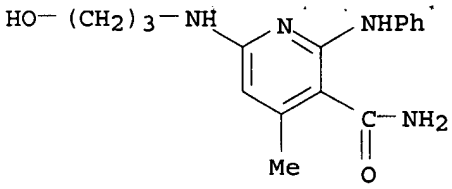
(9CI) (CA INDEX NAME)



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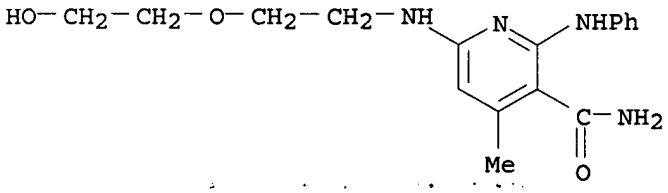
CN 3-Pyridinecarboxamide, 6-[[2-(2-hydroxyethoxy)ethyl]amino]-4-methyl-2-(phenylamino)- (9CI) (CA INDEX NAME)



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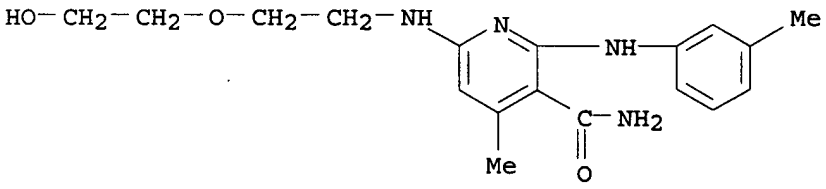

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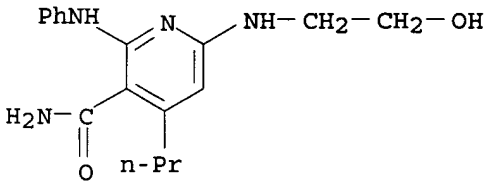
CN 3-Pyridinecarboxamide, 6-[(2-hydroxyethyl)amino]-2-(phenylamino)-4-propyl-(9CI) (CA INDEX NAME)



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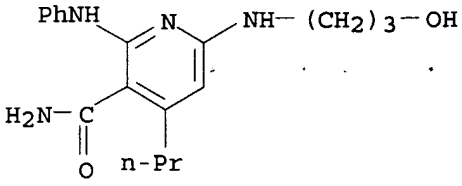
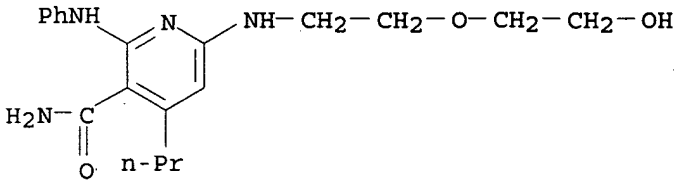
CN 3-Pyridinecarboxamide, 6-[(3-hydroxypropyl)amino]-2-(phenylamino)-4-propyl-(9CI) (CA INDEX NAME)



RN 58445-78-6 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[2-(2-hydroxyethoxy)ethyl]amino]-2-(phenylamino)-4-propyl- (9CI) (CA INDEX NAME)



RN 58445-79-7 HCAPLUS
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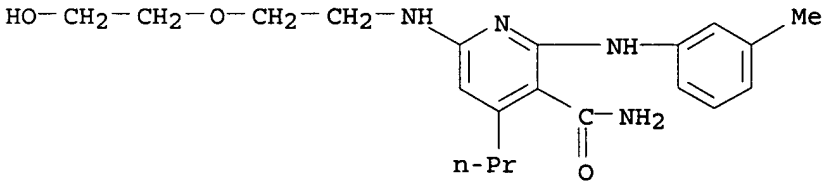
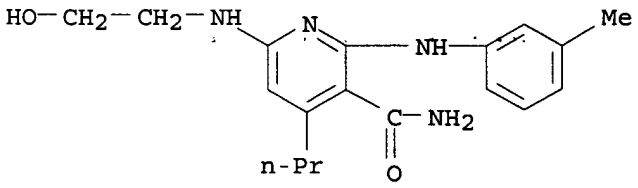


RN 58445-80-0 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[(2-hydroxyethyl)amino]-2-[(3-methylphenyl)amino]-4-propyl- (9CI) (CA INDEX NAME)



RN 58445-81-1 HCAPLUS
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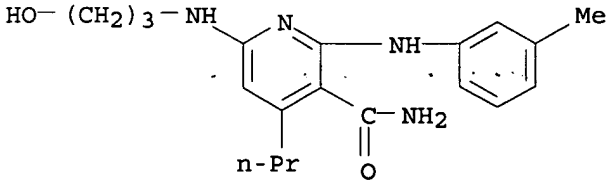

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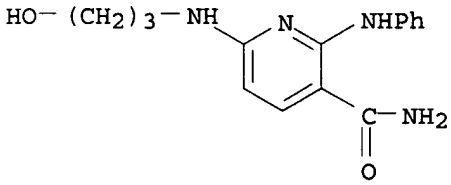

L6 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1973:547410 HCAPLUS
DOCUMENT NUMBER: 79:147410
TITLE: Azo dyes
INVENTOR(S): Dehnert, Johannes; Lamm, Gunther
PATENT ASSIGNEE(S): Badische Anilin- und Soda-Fabrik A.-G.
SOURCE: Ger. Offen., 32 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2211663	A1	19730920	DE 1972-2211663	19720310
DE 2211663	B2	19740530		
DE 2211663	C3	19750116		
CH 596263	A	19780315	CH 1973-3217	19730305
IN 139039	A	19760501	IN 1973-CA502	19730307
US 4042578	A	19770816	US 1973-338859	19730307
CS 178421	P	19770915	CS 1973-1639	19730307
DD 106192	C	19740612	DD 1973-169311	19730308
BE 796542	A1	19730910	BE 1973-128597	19730309
NL 7303378	A	19730912	NL 1973-3378	19730309
IT 979789	A	19740930	IT 1973-48707	19730309
GB 1422650	A	19760128	GB 1973-11408	19730309
SU 521848	D	19760715	SU 1973-1891749	19730309
FR 2187857	B1	19780929	FR 1973-8567	19730309
JP 49001627	A2	19740109	JP 1973-27651	19730310
JP 61039347	B4	19860903		
US 29640	E	19780523	US 1976-711863	19760805

PRIORITY APPLN. INFO.: DE 1970-2062717 19701219
DE 1971-2156545 19711115
US 1971-209431 19711217

DE 1972-2211663	19720310
DE 1972-2216570	19720406
DE 1972-2226933	19720602
DE 1972-2251702	19721021
DE 1972-2251719	19721021
DE 1972-2258823	19721201
DE 1972-2259103	19721202
DE 1972-2259684	19721206
DE 1972-2260827	19721213
GB 1972-57442	19721213
JP 1972-125836	19721216
DE 1972-2263458	19721227
US 1973-328459	19730131

AB The azo dyes I [R = CN or CONH2; R1 = H, (CH2)3OH, (CH2)3OMe, or CH2CH2O2CH; R2 = 2,4-NC(O2N)C6H3, 4-O2NC6H4, or 5-nitro-2,1-benzisothiazolyl] were prepd. and used to dye polyester fibers fast blue to red shades. Thus, 2,6-dichloro-3-cyano-4-methylpyridine and PhNH2 were heated 8 hr in Me2CHOH at 90-100.deg. to give 2-anilino-6-chloro-3-cyano-4-methylpyridine [43164-40-5], which on heating with HO(CH2)3NH2 6 hr at 145-60.deg. gave 2-anilino-3-cyano-6-[(3-hydroxypropyl)amino]-4-methylpyridine (II) [43164-41-6]. Coupling II with diazotized 4-O2NC6H4NH2 gave red-brown dye [I, R = CN, R1 = (CH2)3OH, R2 = 4-O2NC6H4] [43164-42-7], fast scarlet on polyester fibers. Similarly prepd. were 3 other I.

IC C09B

CC 40-4 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)

IT 43164-40-5P 43164-41-6P 43164-42-7P **50380-24-0P**
50380-25-1P 50380-26-2P 50380-29-5P 50380-30-8P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

IT **50380-24-0P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 50380-24-0 HCAPLUS

CN 3-Pyridinecarboxamide, 6-[(3-methoxypropyl)amino]-4-methyl-5-[(5-nitro-2,1-benzisothiazol-3-yl)azo]-2-(phenylamino)- (9CI) (CA INDEX NAME)